



SEQUENCE LISTING

<110> Kauppinen, Sakari  
Alsbo, Carsten  
Nielson, Peter Stein  
Jeffares, Daniel Charlton  
Mourier, Tobias  
Mork, Soren  
Arctander, Peter  
Tommerup, Niels  
Tolstrup, Niels  
Vissing, Henrik

<120> OLIGONUCLEOTIDES USEFUL FOR DETECTING  
AND ANALYZING NUCLEIC ACIDS OF INTEREST

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<140> US 10/690,487

<141> 2003-10-21

<150> PA 2003 00752

<151> 2003-05-19

<150> US 60/420,278

<151> 2002-10-21

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 <400> 81  
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 <210> 82  
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<400> 82  
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 <210> 83  
 <211> 50  
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 <210> 84  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
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 <400> 84  
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 <210> 85  
 <211> 50  
 <212> DNA  
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 <400> 85  
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 <210> 86  
 <211> 50  
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 <211> 50  
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 <400> 87  
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 <210> 88

<211> 50  
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 <400> 88  
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 <211> 50  
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 <221> misc\_feature  
 <222> 1, 31, 37, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 89  
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 <210> 90  
 <211> 50  
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 <221> misc\_feature  
 <222> 1, 7, 10, 19, 22, 31, 43, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 90  
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 <221> misc\_feature  
 <222> 7, 10, 31  
 <223> n = LNA methyl cytosine  
  
 <400> 91  
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 <210> 92  
 <211> 50  
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<220>  
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 <221> misc\_feature  
 <222> 1, 16, 34, 40, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 92  
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 <211> 50  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 27, 28  
 <223> n = LNA methyl cytosine  
  
 <400> 93  
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 <210> 94  
 <211> 50  
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 <210> 95  
 <211> 50  
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 <400> 95  
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 <210> 96  
 <211> 50  
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 <223> Synthetic Oligonucleotide Sequence  
  
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<211> 34  
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 <400> 97  
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 <210> 98  
 <211> 45  
 <212> DNA  
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 <223> Synthetic Oligonucleotide Sequence  
  
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 <210> 99  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
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 <210> 100  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <400> 100  
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 <210> 101  
 <211> 31  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <400> 101  
 attggatcga tccgatgatc ctaatgaagg c 31  
  
 <210> 102  
 <211> 139  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<400> 102  
 atcgatccga tgatccta at gaaggcgccc gggactcct tcttgcatc ttcaacttcc 60  
 ttcaacactt gagcggagtc ggtgcatccg aacaatggaa gcttccacat tgtccagtat 120  
 cgtccatcat agtatcgat 139

<210> 103  
 <211> 17  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<400> 103  
 tccta atgaa ggcgcca 17

<210> 104  
 <211> 17  
 <212> DNA  
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<220>  
 <223> Synthetic Oligonucleotide Sequence

<400> 104  
 tccta atgaa ggcgccc 17

<210> 105  
 <211> 34  
 <212> DNA  
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<220>  
 <223> Synthetic Oligonucleotide Sequence

<400> 105  
 ggaattatcg atgtgtgata ggatcagtg ttag 34

<210> 106  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<400> 106  
 aattg gatcg atattagcag tctccttcgc c 31

<210> 107  
 <211> 287  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<400> 107  
 atcgatgtgt gataggttca gtgttcaggg ctgtccaagg aacgtatgag catgcgagag 60  
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 cttcagagaa agcggttgga gcaaaggacg caaccgtcga gaaagctaag gaaaccgctg 180  
 attatactgc ggagaagggtg ggtgagtata aagactatac gggtgataaa gctaaagagg 240  
 ctaaggacac aactgcagag aaggcgaagg agactgctaa tatcgat 287

<210> 108  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<400> 108  
 tctgttgagg gtatgacttg caattcctgt gtttggacca ttgagcagca 50

<210> 109  
 <211> 50  
 <212> DNA  
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<220>  
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<221> misc\_feature  
 <222> 17, 21, 49  
 <223> n = LNA methyl cytosine

<400> 109  
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<210> 110  
 <211> 50  
 <212> DNA  
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<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 46, 49  
 <223> n = LNA methyl cytosine

<400> 110  
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<210> 111  
 <211> 50  
 <212> DNA  
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<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 17, 21, 27, 39, 49  
 <223> n = LNA methyl cytosine

<400> 111  
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 <210> 112  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <400> 112  
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 <210> 113  
 <211> 50  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 17, 25  
 <223> n = LNA methyl cytosine  
  
 <400> 113  
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 <210> 114  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 25, 31  
 <223> n = LNA methyl cytosine  
  
 <400> 114  
 agaaaagcaa tagaggctgt atcancgggg ntatatagag ttagtatcac 50  
  
 <210> 115  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 17, 23, 25, 31  
 <223> n = LNA methyl cytosine  
  
 <400> 115  
 agaaaagcaa tagaggntgt atnancgggg ntatatagag ttagtatcac 50

<210> 116  
 <211> 50  
 <212> DNA  
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 <220>  
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 <210> 117  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc feature  
 <222> 13, 17, 33, 37  
 <223> n = LNA methyl cytosine  
  
 <400> 117  
 gctggttatac aanccccaat gatagcagag ttnatcngag aacttggatt 50  
  
 <210> 118  
 <211> 50  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc feature  
 <222> 10, 13, 16, 37, 43  
 <223> n = LNA methyl cytosine  
  
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 <210> 119  
 <211> 50  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc feature  
 <222> 13, 15, 17, 33, 37, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 119  
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 <210> 120  
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<213> Artificial Sequence

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<400> 120  
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<210> 121  
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<220>

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<221> misc\_feature  
<222> 9, 33  
<223> n = LNA methyl cytosine

<400> 121  
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<210> 122  
<211> 50  
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<220>

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<221> misc\_feature  
<222> 19, 31, 40, 46  
<223> n = LNA methyl cytosine

<400> 122  
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<210> 123  
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<220>

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<221> misc\_feature  
<222> 9, 19, 23, 31, 33  
<223> n = LNA methyl cytosine

<400> 123  
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<210> 124  
<211> 50  
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<220>

<223> Synthetic Oligonucleotide Sequence

<400> 124  
ttataaagca ctgaagcata agacagcaaa tatggacgta ctgattgtgc 50

<210> 125  
<211> 50  
<212> DNA  
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<220>  
<223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
<222> 9, 17, 37, 41  
<223> n = LNA methyl cytosine

<400> 125  
ttataaagna ctgaagnata agacagcaaa tatggangta ntgattgtgc 50

<210> 126  
<211> 50  
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<220>  
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<221> misc\_feature  
<222> 37  
<223> n = LNA methyl cytosine

<400> 126  
ttataaagca ctgaagcata agacagcaaa tatggangta ctgattgtgc 50

<210> 127  
<211> 50  
<212> DNA  
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<220>  
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<221> misc\_feature  
<222> 9, 11, 17, 27, 37, 41  
<223> n = LNA methyl cytosine

<400> 127  
ttataaagna ntgaagnata agacagnaaa tatggangta ntgattgtgc 50

<210> 128  
<211> 50  
<212> DNA  
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<220>  
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<400> 128



aacaagtgga tgtggaactt gtacaacgtg gagatatcat taaagtagtt 50

<210> 129  
 <211> 50  
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<220>  
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<400> 129  
 aacaagtgga tgtggaactt gtacaacgtg gagatatcat taaagtagtt 50

<210> 130  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
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<400> 130  
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<210> 131  
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<220>  
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<221> misc\_feature  
 <222> 3, 27  
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<400> 131  
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<210> 132  
 <211> 50  
 <212> DNA  
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<220>  
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<400> 132  
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<210> 133  
 <211> 50  
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<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature

<222> 1  
 <223> n = LNA methyl cytosine

<400> 133  
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 <211> 50  
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<220>  
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<221> misc\_feature  
 <222> 1, 7, 10  
 <223> n = LNA methyl cytosine

<400> 134  
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<220>  
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<221> misc\_feature  
 <222> 1, 7, 11, 39  
 <223> n = LNA methyl cytosine

<400> 135  
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 <210> 137  
 <211> 50  
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<220>  
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<221> misc\_feature  
 <222> 21, 29, 37  
 <223> n = LNA methyl cytosine

<400> 137  
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 <210> 138  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 22, 31, 37  
 <223> n = LNA methyl cytosine  
  
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 <210> 139  
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 <221> misc\_feature  
 <222> 15, 21, 27, 29, 31, 37, 39  
 <223> n = LNA methyl cytosine  
  
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 <210> 140  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 9  
 <223> n = LNA methyl cytosine  
  
 <400> 141  
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<210> 142  
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 <212> DNA  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc feature  
 <222> 10, 34  
 <223> n = LNA methyl cytosine  
  
 <400> 142  
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 <210> 143  
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 <221> misc feature  
 <222> 9, 39  
 <223> n = LNA methyl cytosine  
  
 <400> 143  
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 <221> misc feature  
 <222> 21, 33  
 <223> n = LNA methyl cytosine  
  
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 <210> 146  
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<213> Artificial Sequence  
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 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 4, 10, 22  
 <223> n = LNA methyl cytosine  
 <400> 146  
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 <210> 147  
 <211> 50  
 <212> DNA  
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 <221> misc\_feature  
 <222> 21, 33  
 <223> n = LNA methyl cytosine  
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 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
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 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 5, 11, 23, 35  
 <223> n = LNA methyl cytosine  
 <400> 148  
 gtgantcttc ngattgtgtg agntttgttg gagcntgcgt acgtggattt 50  
 <210> 149  
 <211> 49  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 6, 10, 12, 20, 24, 30, 36, 38, 42, 48  
 <223> n = LNA methyl cytosine  
 <400> 149  
 ttttaantgan ancttgtttn tgantgttan ggcgtnantg antttgcna 49  
 <210> 150  
 <211> 50

<212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 5, 21, 25, 27, 31, 39, 43  
 <223> n = LNA methyl cytosine  
  
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 <210> 151  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 13, 19, 23, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 151  
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 <210> 152  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 19, 45, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 152  
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 <210> 153  
 <211> 50  
 <212> DNA  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 5, 11, 13, 17, 29, 31, 41, 47  
 <223> n = LNA methyl cytosine  
  
 <400> 153  
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 <210> 154

<211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 3, 11, 21, 23, 31, 39, 41  
 <223> n = LNA methyl cytosine  
  
 <400> 154  
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 <210> 155  
 <211> 50  
 <212> DNA  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 7, 11, 39  
 <223> n = LNA methyl cytosine  
  
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 <221> misc\_feature  
 <222> 5, 13, 25, 29, 43, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 156  
 gaaangataa tangatttgc tttcnaagnc tctatcacag ttntgttga 50  
  
 <210> 157  
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 <221> misc\_feature  
 <222> 13, 19, 25, 41, 47, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 157  
 atgaacagtc atnaacttng tcttncatga ttattgatgc ncagatntna 50

<210> 158  
 <211> 50  
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 <221> misc\_feature  
 <222> 11, 21, 29, 47, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 158  
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 <210> 159  
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 <221> misc\_feature  
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 <221> misc\_feature  
 <222> 3, 5, 19, 23, 31, 33, 35, 37  
 <223> n = LNA methyl cytosine  
  
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 <221> misc\_feature  
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 <223> n = LNA methyl cytosine  
  
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<210> 162  
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 <221> misc\_feature  
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 <210> 163  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 16, 31  
 <223> n = LNA methyl cytosine  
  
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 <210> 164  
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 <221> misc\_feature  
 <222> 1, 28, 37, 40, 46  
 <223> n = LNA methyl cytosine  
  
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 <221> misc\_feature  
 <222> 1, 10, 22, 28, 49  
 <223> n = LNA methyl cytosine  
  
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<210> 166  
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 <221> misc\_feature  
 <222> 28, 40, 43  
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 <221> misc\_feature  
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 <221> misc\_feature  
 <222> 22, 28, 37, 43, 49  
 <223> n = LNA methyl cytosine  
  
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<210> 170  
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 <221> misc\_feature  
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 <221> misc\_feature  
 <222> 13, 37, 49  
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 <221> misc\_feature  
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 <221> misc\_feature  
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<210> 174  
 <211> 50  
 <212> DNA  
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 <221> misc\_feature  
 <222> 1, 10, 13, 25  
 <223> n = LNA methyl cytosine  
  
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 natgcatccn gangagaaga agtanticatt ttggagttat ctggcgaatt 50  
  
 <210> 175  
 <211> 50  
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 <221> misc\_feature  
 <222> 4, 10, 22  
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 <400> 175  
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 <210> 176  
 <211> 50  
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 <221> misc\_feature  
 <222> 4, 22, 28, 37, 46, 49  
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<210> 178  
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 <221> misc\_feature  
 <222> 7, 46  
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 <221> misc\_feature  
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 <222> 10, 22, 34, 43  
 <223> n = LNA methyl cytosine  
  
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 <221> misc\_feature  
 <222> 4, 13, 16  
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<210> 182  
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 <221> misc\_feature  
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 <210> 183  
 <211> 50  
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 <221> misc\_feature  
 <222> 1, 4, 10, 16, 19, 34, 40, 43  
 <223> n = LNA methyl cytosine  
  
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 <210> 184  
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 <221> misc\_feature  
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 <210> 185  
 <211> 50  
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 <221> misc\_feature  
 <222> 1, 22, 31, 40  
 <223> n = LNA methyl cytosine  
  
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<210> 186  
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 <221> misc\_feature  
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 <223> n = LNA methyl cytosine  
  
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 <221> misc\_feature  
 <222> 13, 16, 28, 37, 43, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 187  
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 <221> misc\_feature  
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 <223> n = LNA methyl cytosine  
  
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<210> 190  
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 <221> misc\_feature  
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 <223> n = LNA methyl cytosine  
  
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 <221> misc\_feature  
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 <221> misc\_feature  
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 <223> n = LNA methyl cytosine  
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 <223> n = LNA methyl cytosine  
  
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 <222> 4, 25, 37  
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 <221> misc\_feature  
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 <211> 50  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 37  
 <223> n = LNA methyl cytosine  
  
 <400> 212  
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 <210> 213  
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 <221> misc\_feature  
 <222> 10, 19, 34, 46, 49  
 <223> n = LNA methyl cytosine  
  
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 <221> misc\_feature  
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 <223> n = LNA methyl cytosine  
  
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 <223> n = LNA methyl cytosine  
  
 <400> 219  
 gctgagntgt atttggctag tgaaatgtgt gtttttgata ctttaaataga 50  
  
 <210> 220  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 16  
 <223> n = LNA methyl cytosine  
  
 <400> 220  
 acgaggtttg gatcanaatc agaattctgt gaaataagcg ttttttggga 50  
  
 <210> 221  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 25, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 221  
 agttctnggt ctaacagtgt ctccngttga atattcttgt aaaatnacac 50  
  
 <210> 222  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 10  
 <223> n = LNA methyl cytosine

<400> 222  
 atgaccactn aaaatactgc taaaagattt gcagcggcag aagccgtaa 50

<210> 223  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 10, 16, 34  
 <223> n = LNA methyl cytosine

<400> 223  
 ttgatatggn tgtacntgta tggtttttga ggangttttt taggagtcga 50

<210> 224  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 16  
 <223> n = LNA methyl cytosine

<400> 224  
 atttattcat tcatcnatgt aaactgtata ttttgaattt gtgttgtaaa 50

<210> 225  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 34, 37, 40, 43  
 <223> n = LNA methyl cytosine

<400> 225  
 gccaaagcag aattgtattt gatcttcggt aacntntcn ttngctacaa 50

<210> 226  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence



<220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 13, 25, 28, 31, 40, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 226  
 attttgaatn ttntgggaaa atgcnatnca ntcgagaaan cgttcngttt 50  
  
 <210> 227  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 13, 25, 40, 46, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 227  
 ntaacggagg atntcgccaa ttatntttga gagacaaaan tgaaantcnt 50  
  
 <210> 228  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 22, 28, 34  
 <223> n = LNA methyl cytosine  
  
 <400> 228  
 atctagtcn aatgaatctc cnacatgntg ttantcgtga tgttcaactc 50  
  
 <210> 229  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 13, 31, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 229  
 ttttgcttn atngcaaaag ctcaagatta nacatgtcag gtnaagccaa 50  
  
 <210> 230  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 4, 7, 22  
 <223> n = LNA methyl cytosine  
  
 <400> 230  
 ncgnganttt aaagagaaga tnataaatTT gcattgtttt ttgtttgtat 50  
  
 <210> 231  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 22, 31, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 231  
 ngagggtgat tcggagactt tnagtaatgt ncaactttca aatgtttgna 50  
  
 <210> 232  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 19, 31, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 232  
 tagatanaag atacatccnt caaaagaagg nctaccgtca atggcnaaag 50  
  
 <210> 233  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 10, 22, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 233  
 tcaacngtn tataaatgaa tnacaacgag gtatcaacat tctccncctg 50  
  
 <210> 234  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 19, 34, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 234  
 atgntgatgt tgaaattgnt ggctaccgta ttcnaaaaga tantgtaatc 50  
  
 <210> 235  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 13, 19, 22, 25  
 <223> n = LNA methyl cytosine  
  
 <400> 235  
 atgaatncat ggnttgana tntcncgttt ttcaagggat ataaaaatgt 50  
  
 <210> 236  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 7, 28, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 236  
 atgnaangaa ttagtgaaaa attcatcntg gaataaaaaa taattntaaa 50  
  
 <210> 237  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 19, 25, 37, 43, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 237  
 atcgctacga caatctttnc gatgncttcg aagtttngaa agntttctnt 50  
  
 <210> 238  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc feature  
 <222> 31, 34, 40, 46  
 <223> n = LNA methyl cytosine

<400> 238  
 gaggtcgggtg gaggaggaag tggaaattga nggnaaaatn ctgccnaagg 50

<210> 239  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc feature  
 <222> 1, 16, 19, 34, 37, 40  
 <223> n = LNA methyl cytosine

<400> 239  
 ncctctttgg gatttncant caagtttact gttnggnagn agtgatataa 50

<210> 240  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc feature  
 <222> 10, 13, 37, 40, 46  
 <223> n = LNA methyl cytosine

<400> 240  
 gatttggttn canagaatgc ttaggacgtt taaatngtn acaaantttt 50

<210> 241  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc feature  
 <222> 1, 13, 34, 46  
 <223> n = LNA methyl cytosine

<400> 241  
 naatatggtt ccnatttttag caactcatat gaanacagaa gatgtnccttg 50

<210> 242  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 37, 40  
 <223> n = LNA methyl cytosine  
  
 <400> 242  
 gaaaaaggcg tcgacatttt atgtgacacg tggacanttn actatgacaa 50  
  
 <210> 243  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 25, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 243  
 taattgaatt acgggtcttt tgtanatatt aatttttagta tantttgtga 50  
  
 <210> 244  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 13, 25, 37, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 244  
 atatcaatgn aantattaat gaatnacaac gtcttgncaa tcttctcng 50  
  
 <210> 245  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 28, 37, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 245  
 ggagtgacta tgaaagcaaa gagttacnga ttgaaantga aagacagana 50  
  
 <210> 246  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 34, 40  
 <223> n = LNA methyl cytosine  
  
 <400> 246  
 aatntttaat gataatttat gggatctgta tttntctttn tgtcaataaa 50  
  
 <210> 247  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 10, 37, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 247  
 atgagcncan aaatgtaaaa ggatacgaga ttgattnggg aanagtcatg 50  
  
 <210> 248  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 7, 22, 25, 37  
 <223> n = LNA methyl cytosine  
  
 <400> 248  
 atcntgngat atgacattaa gncanatggt tctgaanctt caacagaaga 50  
  
 <210> 249  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 7, 10, 13, 28, 37, 46, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 249  
 ntgaacnttn aanagaagat aaacttcngt atagcngtgg aaaaantcnt 50  
  
 <210> 250  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 16, 19, 34, 37, 43  
 <223> n = LNA methyl cytosine

<400> 250  
 atttaaagga attcanagnt caaaaaataa taantancgg tttagagatt 50

<210> 251  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 10, 25, 28, 37, 43  
 <223> n = LNA methyl cytosine

<400> 251  
 aatttgagcn acatggcaag ttatnaanag aggaganaat gcngtacagt 50

<210> 252  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 4, 40  
 <223> n = LNA methyl cytosine

<400> 252  
 tganattcta cttaaaggga agaaaatacc aactggtagc cttgtatttg 50

<210> 253  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 4, 7, 13, 34, 40, 43, 49  
 <223> n = LNA methyl cytosine

<400> 253  
 tcancanaaa gcnatacata tgcgagctag ttntcaggn tgnttaaanc 50

<210> 254  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 31, 49  
 <223> n = LNA methyl cytosine

<400> 254  
 ttcgacaaaa ctatTTTtTgga aagaacaatc ncattcagtg tcggcaaang 50

<210> 255  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 19, 25  
 <223> n = LNA methyl cytosine

<400> 255  
 tctgacaaca aagccatana cgtgncgact aattccacaa tcagctagaa 50

<210> 256  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 37, 40, 43, 46  
 <223> n = LNA methyl cytosine

<400> 256  
 ttggcaaaag cagaattgta tTTaatcttt ggaaacntcn ttnttngcta 50

<210> 257  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 10, 19, 37  
 <223> n = LNA methyl cytosine

<400> 257  
 tgaatctttn aaacttatna ctCcttttaa tactacngtt cctgtttgga 50

<210> 258  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence



<220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 34, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 258  
 attgagattg tatccattgg cgtctcttgt tcanaatcga aaatgtctna 50  
  
 <210> 259  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 34, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 259  
 aactgctact attgcgccat caagtgtgct gctnaaactt aaatcnaggt 50  
  
 <210> 260  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 19, 28, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 260  
 ttgaganagg aaataagant agaattcntt tgaaactggg gggaagtgnt 50  
  
 <210> 261  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 22, 34, 37, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 261  
 aagatgtcaa agaattcaag cnagaacgat ggtncancga cgagcnatta 50  
  
 <210> 262  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 13, 34, 40  
 <223> n = LNA methyl cytosine  
  
 <400> 262  
 attgaancaa cnttgaaata taatgacaca aaancatgtn tggaagtgg 50  
  
 <210> 263  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 19, 28, 31, 40, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 263  
 ggcaatgtga caatatctnc aatggttntt nacagcaatn atnacgtgtt 50  
  
 <210> 264  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 10, 25, 40, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 264  
 ntattcaatn gatattttat cacancatcc agtgctggan ctncatcatt 50  
  
 <210> 265  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 28, 31, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 265  
 gtctcagaga tgtgtaaatt tacttcntg naatttgttt cangcaacta 50  
  
 <210> 266  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 13, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 266  
 ttctgaatgt ttncaattgg gactgaagtt tcaagagtca ccnagaaaaa 50  
  
 <210> 267  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 19, 28, 31  
 <223> n = LNA methyl cytosine  
  
 <400> 267  
 gatncagcat cttccaagnt tacattcntc nggtgcttgta tcaaggaaac 50  
  
 <210> 268  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 268  
 tttgaaaacn tggttttatta ttaaaataga taattgatta gttctgtang 50  
  
 <210> 269  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 40  
 <223> n = LNA methyl cytosine  
  
 <400> 269  
 atangttgca ctgcatccgg ctatgaggga gccaaaaatn ttaggggagt 50  
  
 <210> 270  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 7  
 <223> n = LNA methyl cytosine  
  
 <400> 270  
 gcanttncat tcattctctgc agctactatg gctttggtga caaaagttgg 50  
  
 <210> 271  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 16, 22, 37  
 <223> n = A,T,C or G  
  
 <400> 271  
 ncgtccaaaa gaatgncatc tnacaagtct tgaaatntta taaaggtagt 50  
  
 <210> 272  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 43  
 <223> n = LNA methyl cytosine  
  
 <400> 272  
 gagggatcaa cagtaacctc gtgcggtatt gacaaggat gtncggaagg 50  
  
 <210> 273  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 34, 37, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 273  
 gatggttctt cgatcgcaaa caaaacagat gtgntcnatt tanatacgga 50  
  
 <210> 274  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 16, 28, 43, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 274  
 atggagaaaa tggatntgat ggagttgnag gaagtgatgg agntcnagga 50  
  
 <210> 275  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 28  
 <223> n = LNA methyl cytosine  
  
 <400> 275  
 tgaatctcca taaattattc aatgtttnc aatatttaatt ttatcaattg 50  
  
 <210> 276  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 7, 19, 28, 31, 43, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 276  
 gctnaanacg gtaggatcnt atggaacngt nggaggagca ggnctnggag 50  
  
 <210> 277  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 10, 31, 37, 40  
 <223> n = LNA methyl cytosine  
  
 <400> 277  
 ngtgacaacn tcttatttat ttctgtaaaa ntgattngcn aaacttttgt 50  
  
 <210> 278  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 13, 25, 28, 37  
 <223> n = LNA methyl cytosine  
  
 <400> 278  
 gaagctttca aancaaatga gttcnttncc ggaatcncaa agaataccaa 50  
  
 <210> 279  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 43  
 <223> n = LNA methyl cytosine  
  
 <400> 279  
 acaatgaaaa gagaggatgg aaaggaaatc gaagtctctg ttnttgacga 50  
  
 <210> 280  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 34, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 280  
 gatgaggtan ataactttgt gtgcagttat aggnecatcta cagtantctgc 50  
  
 <210> 281  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 7, 10, 16, 25, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 281  
 ttcnatnatn actaancgat tgtcntgaca ttgatggcca aancaggga 50  
  
 <210> 282  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 10, 28, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 282  
 tcanattatn gaacaagtac tagtaagnat gctgtgatgg agtgcngcta 50  
  
 <210> 283  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 10, 46, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 283  
 nacggagatn acgacatcaa agcggattgc ttagagtgtg gaaacngtnt 50  
  
 <210> 284  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 16, 25, 28, 31, 40, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 284  
 actatctacg tggcangttg gactnatnat ngatgggaan gangtataag 50  
  
 <210> 285  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 16, 25, 31, 37, 40, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 285  
 tctntggcca gttcantttg tgatnaatct nagattngtn canacaagat 50  
  
 <210> 286  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 4, 7, 10, 19, 28, 37, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 286  
 ntanttnocgn aagaaggcnc gtcgtttnta atcgatngaa catctnacac 50  
  
 <210> 287  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 13, 22, 28, 37, 40, 46, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 287  
 atggatgatn ganccacttg cnactgancc acaatcncgn actcantanc 50  
  
 <210> 288  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 13, 28, 40, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 288  
 aagacggaga ggntggagag aacggtancg atggagagcn aggaantgat 50  
  
 <210> 289  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 4, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 289  
 ncanccagga ggagggatac aagagaagaa agtacagatt ctncaactaa 50  
  
 <210> 290  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence



<220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 13, 31, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 290  
 agtttcacan ttntttttgc cgttttgggt nccgttatca atncattgat 50  
  
 <210> 291  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 13, 16  
 <223> n = LNA methyl cytosine  
  
 <400> 291  
 nttttatatt ctnatnaatt tgtttcctac ttggtcagct gaggatcggt 50  
  
 <210> 292  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <400> 292  
 ttccgcacaa atggagcaaa agtatcgtgg ttattgtgat gcgattattc 50  
  
 <210> 293  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 4, 19, 43, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 293  
 ntantatgaa tgagctcant ggactcattt atcaactcga gtnaaaagnc 50  
  
 <210> 294  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence

<400> 294  
 gttggcgaat cttcgggttc gtataacttc ttagagggat aagcgggtgtt 50  
 <210> 295  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
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 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 4, 10, 25, 31, 34  
 <223> n = LNA methyl cytosine  
 <400> 295  
 gaantgattn gagaagagtg gggantgtcg ntnngagggt taacgacttc 50  
 <210> 296  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 19  
 <223> n = LNA methyl cytosine  
 <400> 296  
 tgttattgcg aaagtaatnc tgcttagtac gagaggaaca gcgggttcaa 50  
 <210> 297  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 7, 10, 16, 46  
 <223> n = LNA methyl cytosine  
 <400> 297  
 tgcatangan ttggtntctt ggtcaagggt ttgtattcag tagagnagtc 50  
 <210> 298  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 7, 13, 16, 19, 22, 28, 37  
 <223> n = LNA methyl cytosine

<400> 298  
 tgtgctnaga atncanttnt tngaaatnca attgtgncaa gcactaactt 50  
  
 <210> 299  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 13, 19, 22, 25, 28, 31  
 <223> n = LNA methyl cytosine  
  
 <400> 299  
 ttaagangga acnaattgnt cnacnacnat nataccacga gttgaacagt 50  
  
 <210> 300  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 10, 16, 22, 25, 28, 34  
 <223> n = LNA methyl cytosine  
  
 <400> 300  
 acattgntan caaggntctaa gncgnttnaa attntctaag tctgaaatga 50  
  
 <210> 301  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 46  
 <223> n = LNA methyl cytosine  
  
 <400> 301  
 gttgagtcca ccggagtctt caccaccatc gagaaggcca atgctnactt 50  
  
 <210> 302  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 13, 16, 28  
 <223> n = LNA methyl cytosine

<400> 302  
 agtaaattcn ttncangtgg atctactngt gtgttcacaa agatcgaggg 50

<210> 303  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 4, 25  
 <223> n = LNA methyl cytosine

<400> 303  
 ggtncataa tgggagactg gttcngcgca gaaagttatg cagatgatat 50

<210> 304  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 7, 10, 19, 22  
 <223> n = LNA methyl cytosine

<400> 304  
 agaaaanttn gttggacctt gntaaggaga agtatttcaa gcttctgagc 50

<210> 305  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 4, 7, 13, 19, 37  
 <223> n = LNA methyl cytosine

<400> 305  
 gagnacnca agntcaagnc atatttggaa acaagancat actcttcaaa 50

<210> 306  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 7, 19, 28  
 <223> n = LNA methyl cytosine

<400> 306  
 gttacntct acaaatctng cttcaatnca atgttggtcg cagtcaccaa 50  
 <210> 307  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 1, 16, 37  
 <223> n = LNA methyl cytosine  
 <400> 307  
 ncgaagagct cgttantatg cgaggaggtg tgaagcngga ataatttttt 50  
 <210> 308  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 16, 46  
 <223> n = LNA methyl cytosine  
 <400> 308  
 aagttcttgg ttggangcga tgggaaaatt atcaagagat ttggancaac 50  
 <210> 309  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 22, 40, 46  
 <223> n = LNA methyl cytosine  
 <400> 309  
 acgatttcaa cgtcaaaaat gntaatggtg atgacgtgtn actttnggat 50  
 <210> 310  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 40  
 <223> n = LNA methyl cytosine

<400> 310  
 acctgggttg atgtttttgc ggctgaaagt ttctccaagn tcattgatta 50  
  
 <210> 311  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 10, 13, 28, 40  
 <223> n = LNA methyl cytosine  
  
 <400> 311  
 gaagtangtn tcncaaagaa aagctacncc agcttaaggn attgcacaat 50  
  
 <210> 312  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 37, 46, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 312  
 ggcncagata tgtattcaaa gatcgaggta aatggtnaga acactnatnc 50  
  
 <210> 313  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 7, 31, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 313  
 aatntanagg gaaaaaggat ttcgagttgc ngcgtttcca tgnaatcaat 50  
  
 <210> 314  
 <211> 50  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 19, 37  
 <223> n = LNA methyl cytosine

<400> 314  
 agatggnaaa gaagcatana taactgaaac tcttcnnggg gagctactac 50  
 <210> 315  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 13, 25  
 <223> n = LNA methyl cytosine  
 <400> 315  
 tgaataaacg ggncgaacta aatcnattcg tcagtggaaa tgggaaacaa 50  
 <210> 316  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 4, 7, 10, 25, 28, 34  
 <223> n = LNA methyl cytosine  
 <400> 316  
 gtctgtnttn ctgatgctta tgaangcnta tttntcgaag tattcatggg 50  
 <210> 317  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 13, 37, 43  
 <223> n = LNA methyl cytosine  
 <400> 317  
 tgtggaaaag cnttcaacga gaagaaagca gaagttingta tanaattcaa 50  
 <210> 318  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 7, 10, 22, 28, 37, 40, 46  
 <223> n = LNA methyl cytosine

<400> 318  
 atatcgncgn ctgcttctc ancaaccnga ataacgnaan aaaaanttta 50  
 <210> 319  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 7, 10, 40, 43, 46  
 <223> n = LNA methyl cytosine  
 <400> 319  
 aagagcncan tcatcaagga tgaaagtgat ggaaagactn ttngtntcag 50  
 <210> 320  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 1, 22, 25, 28, 37  
 <223> n = LNA methyl cytosine  
 <400> 320  
 naagatattt taacaaaaat gnatnaanaa gaagccnaat caggttccgg 50  
 <210> 321  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 1, 7, 16, 37  
 <223> n = LNA methyl cytosine  
 <400> 321  
 nttgggnatt ctgtanggga tgctgtcatt actgtgnctg catattttaa 50  
 <210> 322  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 7, 10, 22, 28, 46, 49  
 <223> n = LNA methyl cytosine



<400> 322  
 aagaagnatn tcgaaatcaa cncagacnac gctatcatga agacanttng 50  
  
 <210> 323  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 16, 19  
 <223> n = LNA methyl cytosine  
  
 <400> 323  
 atgaaagctn aagctnttng tgattcctct actatgggat acatggccgc 50  
  
 <210> 324  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 324  
 ttaagcagan cattgaggac gagaagctca aggataagat cagccnagaa 50  
  
 <210> 325  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 4, 25  
 <223> n = LNA methyl cytosine  
  
 <400> 325  
 ngnttttcca aggatgacat tgaangcatg gtcaacgaag ctgagaaata 50  
  
 <210> 326  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 13, 19, 43  
 <223> n = LNA methyl cytosine

<400> 326  
 gtcgacttgg ctnacatcna caccgtcatc aacaaggaag ganagatgac 50  
  
 <210> 327  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 16, 22, 25, 37, 40, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 327  
 naatcttgag ggacangttc tnacnattga gggacancan gaggtnaaga 50  
  
 <210> 328  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 19, 28, 31, 34, 37, 40, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 328  
 tcantaaaat gcaccaatnt ggacaatntt ntgnttntgn tggatgcgnt 50  
  
 <210> 329  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 19  
 <223> n = LNA methyl cytosine  
  
 <400> 329  
 tcatgaagct aaacaattng aaaaggaaga tggatgaacaa cgggaacgtg 50  
  
 <210> 330  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 13, 25, 28, 34  
 <223> n = LNA methyl cytosine

<400> 330  
 aagtataacn ttncacagg ggtcngtnca gaanaaatca agtccgaatt 50  
  
 <210> 331  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc feature  
 <222> 7, 13, 43, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 331  
 tttacnattg gngcagatt cttcgatgac gtcgactttg atngcnacat 50  
  
 <210> 332  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc feature  
 <222> 16, 25, 28, 34  
 <223> n = LNA methyl cytosine  
  
 <400> 332  
 gcgtcgaaaa gatctnctg aagtntgnat tgantggcct tgatattatg 50  
  
 <210> 333  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc feature  
 <222> 28, 34  
 <223> n = LNA methyl cytosine  
  
 <400> 333  
 acatagtctt cgatcatcaag gataagcnac accngaaatt caagcgagag 50  
  
 <210> 334  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc feature  
 <222> 4, 10, 16, 22, 40  
 <223> n = LNA methyl cytosine

<400> 334  
 tcgncaacan tcggnacgt gncaaatga atatcatctn aaatcgaatg 50  
  
 <210> 335  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc feature  
 <222> 16, 37, 40, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 335  
 gtcgaagtta gaaatncaga agccgatatt gtttctnatn aaattncaat 50  
  
 <210> 336  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc feature  
 <222> 7, 37, 40  
 <223> n = LNA methyl cytosine  
  
 <400> 336  
 actactngtg gaagatccaa taaagttggt tcaacngan aaatcgattc 50  
  
 <210> 337  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <400> 337  
 ggcagtgaag atgaagtggc aaattctgat gaagaaatgg gaagcagtat 50  
  
 <210> 338  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc feature  
 <222> 34, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 338  
 ttgtcaacga ccagaagcaa aaattatggg aatngcgata aaattnaagg 50

<210> 339  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 13, 28, 34, 37  
 <223> n = LNA methyl cytosine  
  
 <400> 339  
 gatgcaagtg tgncaactgc gaatgtgntc aggntgntca ttaatttgaa 50  
  
 <210> 340  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 19  
 <223> n = LNA methyl cytosine  
  
 <400> 340  
 gacgatatgt tcgatttcnc aggagaggac ggtgatgatg tgtcagactt 50  
  
 <210> 341  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 19  
 <223> n = A,T,C or G  
  
 <400> 341  
 gacgatatgt tcgatttcnc aggagaggac ggtgatgatg tgtcagactt 50  
  
 <210> 342  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 16, 25, 34, 40  
 <223> n = LNA methyl cytosine  
  
 <400> 342  
 gaggtcgtcg taatcnacaa ggctncaaga aagnaagtgn tcgacatttc 50

<210> 343  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 16, 22, 43, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 343  
 gatacttttg gcaagntcgt tncaatcaag aaggagggtca tncagatng 50  
  
 <210> 344  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 13, 22, 31, 37, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 344  
 gatgaggagg ganacaccga gntctaaatc nacattncaa tanagttcaa 50  
  
 <210> 345  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 19, 40  
 <223> n = LNA methyl cytosine  
  
 <400> 345  
 nttatgtccg aagatatcnc agaggattgg gacaagaacn cagtcaagat 50  
  
 <210> 346  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 10, 13, 25, 31, 34, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 346  
 tacnccagtn gantatgatg gaganagaaa nctngagaag ttngaagaat 50

<210> 347  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 31  
 <223> n = LNA methyl cytosine  
  
 <400> 347  
 ntctgtgcct ccaacttcaa cgaaattgcc nttgatgaaa ccaagactgt 50  
  
 <210> 348  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 16, 22  
 <223> n = LNA methyl cytosine  
  
 <400> 348  
 ttctattgtt tattcnttgc cnaatagtgt atttgtattt attctttctc 50  
  
 <210> 349  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 7, 10, 13  
 <223> n = LNA methyl cytosine  
  
 <400> 349  
 naaatcnatn tcncagtgga tttcgtcatt gctgacaagt tcgccgagga 50  
  
 <210> 350  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
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 <221> misc\_feature  
 <222> 16, 25, 31, 37, 40  
 <223> n = LNA methyl cytosine  
  
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<210> 351  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 31, 34, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 351  
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 <210> 352  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 7, 10, 13, 22, 28, 31, 37, 40  
 <223> n = LNA methyl cytosine  
  
 <400> 352  
 ngagcanatn atncaatcgt tncgtgttnaa naaggcnttn taatcgtag 50  
  
 <210> 353  
 <211> 50  
 <212> DNA  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 19, 31  
 <223> n = LNA methyl cytosine  
  
 <400> 353  
 tgatgagagn ccagtaacna attatttgaa ncgtcaggat gtgcgtaagg 50  
  
 <210> 354  
 <211> 50  
 <212> DNA  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 4, 22, 28, 37, 46, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 354  
 ngntaatcg aagaagggga tngtgggnaa tcataantaa ttaacnttna 50



<210> 355  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 7, 10, 19, 22, 37, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 355  
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 <210> 356  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 13, 25, 31, 40, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 356  
 gttntcttgg agntgaagtt gtcgngtgct nggtgtgattn tcacttctnt 50  
  
 <210> 357  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 7, 43  
 <223> n = LNA methyl cytosine  
  
 <400> 357  
 tcgntancag caaggaatac ttcaacaagg tcaacaagtg atnacacaga 50  
  
 <210> 358  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 16, 19, 28, 31, 40, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 358  
 aaggaaattg taactngcnc aagagctntc ncagggtgtn gtgganatat 50

<210> 359  
 <211> 50  
 <212> DNA  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <400> 359  
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 <210> 360  
 <211> 50  
 <212> DNA  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 28, 37  
 <223> n = LNA methyl cytosine  
  
 <400> 360  
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 <210> 361  
 <211> 50  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 13, 22, 31, 34, 40, 43, 46, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 361  
 atattgagan ttngggacaa gnggacttct natntgtcan agnaantgnc 50  
  
 <210> 362  
 <211> 50  
 <212> DNA  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 7, 25, 34  
 <223> n = LNA methyl cytosine  
  
 <400> 362  
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 <210> 363  
 <211> 50  
 <212> DNA

<213> Artificial Sequence  
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 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 13, 28  
 <223> n = LNA methyl cytosine  
 <400> 363  
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 <210> 364  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
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 <210> 365  
 <211> 50  
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 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 4, 22, 25, 43, 49  
 <223> n = LNA methyl cytosine  
 <400> 365  
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 <210> 366  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc\_feature  
 <222> 1, 4, 10, 46  
 <223> n = LNA methyl cytosine  
 <400> 366  
 ntngagaan tcttcaagtt ggaatcaaca gtggcatcgg atacanatga 50  
 <210> 367  
 <211> 50  
 <212> DNA  
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<223> Synthetic Oligonucleotide Sequence

<221> misc\_feature

<222> 4

<223> n = LNA methyl cytosine

<400> 367  
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<210> 368  
<211> 50  
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<220>  
<223> Synthetic Oligonucleotide Sequence

<221> misc\_feature

<222> 46

<223> n = LNA methyl cytosine

<400> 368  
gataaaatcg atagcgacga cgatgaggaa gccgatgatg aggagntcga 50

<210> 369  
<211> 50  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic Oligonucleotide Sequence

<400> 369  
gcaggtggat acggatgtgg agctgacttt tgcgttttat caagaatctc 50

<210> 370  
<211> 50  
<212> DNA  
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<220>  
<223> Synthetic Oligonucleotide Sequence

<221> misc\_feature

<222> 4

<223> n = LNA methyl cytosine

<400> 370  
tccngtagaa gtagaatgc tagaagaacc tgaacaagaa gatcaagaaa 50

<210> 371  
<211> 50  
<212> DNA  
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<220>  
<223> Synthetic Oligonucleotide Sequence

<221> misc\_feature

<222> 22, 28, 37, 40  
 <223> n = LNA methyl cytosine

<400> 371  
 tgcaagatgt cagtattgaa anaattcntg tagaganccn cgaagaaaat 50

<210> 372  
 <211> 50  
 <212> DNA  
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<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 4, 49  
 <223> n = LNA methyl cytosine

<400> 372  
 agtntcgtat ccgggaatgt ttcagcctgt gaaaatgctt gttgaagang 50

<210> 373  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 1, 4, 10, 13, 40, 46  
 <223> n = LNA methyl cytosine

<400> 373  
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<210> 374  
 <211> 50  
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<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 1, 10, 37, 40  
 <223> n = LNA methyl cytosine

<400> 374  
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<210> 375  
 <211> 50  
 <212> DNA  
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<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 7, 22, 28, 37  
 <223> n = LNA methyl cytosine

<400> 375  
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<210> 376  
 <211> 50  
 <212> DNA  
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<220>  
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<221> misc\_feature  
 <222> 1, 7, 46  
 <223> n = LNA methyl cytosine

<400> 376  
 naatgangag aatattggag taatggggaa actggttgcg acttgngaaa 50

<210> 377  
 <211> 50  
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<220>  
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<221> misc\_feature  
 <222> 13, 16, 25, 28, 34, 37, 49  
 <223> n = LNA methyl cytosine

<400> 377  
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<210> 378  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide Sequence

<400> 378  
 tcttggtatt ttatstttggt ttgggcttgt tccgaaaatg aaatggttgt 50

<210> 379  
 <211> 50  
 <212> DNA  
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<220>  
 <223> Synthetic Oligonucleotide Sequence

<221> misc\_feature  
 <222> 1, 16, 22, 28, 31, 37, 46  
 <223> n = LNA methyl cytosine

<400> 379  
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 <210> 380  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 28, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 380  
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 <210> 381  
 <211> 50  
 <212> DNA  
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 <221> misc\_feature  
 <222> 4, 13, 22, 34  
 <223> n = LNA methyl cytosine  
  
 <400> 381  
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 <210> 382  
 <211> 50  
 <212> DNA  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 16, 28, 37, 40  
 <223> n = LNA methyl cytosine  
  
 <400> 382  
 tacactncat cctcgncgac atacaatnca acatctncan gcggattctc 50  
  
 <210> 383  
 <211> 50  
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 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 49  
 <223> n = LNA methyl cytosine

<400> 383  
 atggagaaga tggtttggat ggaatgtggg ttgagaatca gaatatgcng 50  
 <210> 384  
 <211> 50  
 <212> DNA  
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 <221> misc\_feature  
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 <223> n = LNA methyl cytosine  
 <400> 384  
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 <210> 385  
 <211> 50  
 <212> DNA  
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 <221> misc\_feature  
 <222> 13, 28, 40  
 <223> n = LNA methyl cytosine  
 <400> 385  
 gagagatta aangcatgtc agtggctnat gtcgagtttn cagaagtcta 50  
 <210> 386  
 <211> 50  
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 <221> misc\_feature  
 <222> 10, 34, 40, 43  
 <223> n = LNA methyl cytosine  
 <400> 386  
 agatattgcn tctacttata atgggcctga tggntttgtn tgnccgtatt 50  
 <210> 387  
 <211> 50  
 <212> DNA  
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 <221> misc\_feature  
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 <223> n = LNA methyl cytosine



<400> 387  
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 <210> 388  
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 <221> misc\_feature  
 <222> 7, 37  
 <223> n = LNA methyl cytosine  
  
 <400> 388  
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 <210> 389  
 <211> 50  
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 <221> misc\_feature  
 <222> 40, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 389  
 gactcgttg tgtcttgcta ggatgtcttg ggttcattcn tcaatngttg 50  
  
 <210> 390  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 28  
 <223> n = LNA methyl cytosine  
  
 <400> 390  
 gtantgggct cgagggctga aactaatnga agaagaaact ccagaagata 50  
  
 <210> 391  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 43, 46  
 <223> n = LNA methyl cytosine

<400> 391  
 ggatcatgct ctgtttacga cactgatgag ttaagagtca gantgnacgt 50  
 <210> 392  
 <211> 50  
 <212> DNA  
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 <221> misc feature  
 <222> 1, 37  
 <223> n = LNA methyl cytosine  
 <400> 392  
 ngatggttct tctcgtctat catatcgggg tagttgncga agtggtgaaa 50  
 <210> 393  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
 <221> misc feature  
 <222> 1, 10, 46  
 <223> n = LNA methyl cytosine  
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 naaatcgaan tgggtataaag gaggaccgac ggagacgaat ttgaangaga 50  
 <210> 394  
 <211> 50  
 <212> DNA  
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 <223> Synthetic Oligonucleotide Sequence  
 <221> misc feature  
 <222> 4, 25, 28, 34  
 <223> n = LNA methyl cytosine  
 <400> 394  
 attngatcaa agaactctgg ctctnggngt taantggaca tttgttcgtc 50  
 <210> 395  
 <211> 50  
 <212> DNA  
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 <221> misc feature  
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 <223> n = LNA methyl cytosine

<400> 395  
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 <210> 396  
 <211> 50  
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 <221> misc\_feature  
 <222> 1, 7, 19, 28, 43  
 <223> n = LNA methyl cytosine  
  
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 <210> 397  
 <211> 50  
 <212> DNA  
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 <221> misc\_feature  
 <222> 1, 13, 19, 34, 37  
 <223> n = LNA methyl cytosine  
  
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 <210> 398  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 13, 25, 28, 31  
 <223> n = LNA methyl cytosine  
  
 <400> 398  
 ggagttgctn acngcaatta agagngantt nggatctctg gataatcttc 50  
  
 <210> 399  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 25, 31  
 <223> n = LNA methyl cytosine

<400> 399  
 aaattgagga aaagcttcac gaggnnggtct ncaaaggaaa cgtcaaagaa 50  
  
 <210> 400  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 10, 28, 31, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 400  
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 <210> 401  
 <211> 50  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 16, 28, 37  
 <223> n = LNA methyl cytosine  
  
 <400> 401  
 aagaagattn ctgacnagag agactcangt gcttacncaa gaagcatcta 50  
  
 <210> 402  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 25, 40, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 402  
 agcattggtg gaaatacgaa atggnatggg aagagaaacn cctctnaatt 50  
  
 <210> 403  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 22, 28, 31, 40, 49  
 <223> n = LNA methyl cytosine

<400> 403  
 ntggttacgg tagtgtatgg tncctgtnc tncagaatgn aaatatgtng 50  
  
 <210> 404  
 <211> 50  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 19, 28, 37, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 404  
 tctacgtcga tggaaaagnc gatttaanaa tcaaagncaa caacgnagtt 50  
  
 <210> 405  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 22, 25, 37, 43, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 405  
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 <210> 406  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <400> 406  
 agatgatgat gaagttcctg caaagaagcc tgctccagcg aagaaagctg 50  
  
 <210> 407  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 43  
 <223> n = LNA methyl cytosine  
  
 <400> 407  
 aaaacctcgt actggaaaag gagctgcgaa agcggaagtt atngatttgt 50

<210> 408  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 10, 28, 37  
 <223> n = LNA methyl cytosine  
  
 <400> 408  
 gagaagccn agaagaagta cgacagantg aaggagnagt tgaaaaagtt 50  
  
 <210> 409  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 19, 34  
 <223> n = LNA methyl cytosine  
  
 <400> 409  
 ttctgtnata caatcgtgnt aatcggcagg ttgngatcct ttgtaaccat 50  
  
 <210> 410  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 7, 13, 31  
 <223> n = LNA methyl cytosine  
  
 <400> 410  
 aagnttngga cancattgag aatgtcaaag ncaaaatcca ggataaggag 50  
  
 <210> 411  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 4, 10, 13, 22, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 411  
 aatngaaccn atnaattcac tngttattcc tcctcgatct ccgttnaagt 50

<210> 412  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 7, 10, 25, 31, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 412  
 ntgaacnatn caaatattga agatncagct naggctgaag cctatnagat 50  
  
 <210> 413  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 7, 28, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 413  
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 <210> 414  
 <211> 49  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 1, 7, 10, 13, 19, 25  
 <223> n = LNA methyl cytosine  
  
 <400> 414  
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 <210> 415  
 <211> 50  
 <212> DNA  
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 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7, 22, 28, 43, 49  
 <223> n = LNA methyl cytosine  
  
 <400> 415  
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<210> 416  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 7  
 <223> n = LNA methyl cytosine  
  
 <400> 416  
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 <221> misc\_feature  
 <222> 13, 37, 40  
 <223> n = LNA methyl cytosine  
  
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 <210> 418  
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 <221> misc\_feature  
 <222> 1, 19, 31, 37, 40, 49  
 <223> n = LNA methyl cytosine  
  
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 <210> 419  
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 <221> misc\_feature  
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 <223> n = LNA methyl cytosine  
  
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<210> 420  
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 <221> misc\_feature  
 <222> 19, 25  
 <223> n = LNA methyl cytosine  
  
 <400> 420  
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 <210> 421  
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 <221> misc\_feature  
 <222> 43  
 <223> n = LNA methyl cytosine  
  
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 <210> 422  
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 <223> Synthetic Oligonucleotide Sequence  
  
 <221> misc\_feature  
 <222> 19, 34  
 <223> n = LNA methyl cytosine  
  
 <400> 422  
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 <210> 423  
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 <221> misc\_feature  
 <222> 4, 7, 10, 31  
 <223> n = LNA methyl cytosine  
  
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<210> 424  
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 <221> misc\_feature  
 <222> 34, 40  
 <223> n = LNA methyl cytosine  
  
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 <210> 425  
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 <221> misc\_feature  
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 <223> n = LNA methyl cytosine  
  
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 <221> misc\_feature  
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 <223> n = LNA methyl cytosine  
  
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 <223> n = LNA methyl cytosine  
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<221> misc_feature
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<221> misc_feature
<222> 16, 28, 46, 49
<223> n = LNA methyl cytosine

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<210> 438
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<220>
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attctgaacg tatctgccgt tgaaaaaggt actggtaaat ctaacaagat tacaattact 180
aacgataagg gaagattatc gaaggaagat atcgataaaa tggttgctga ggcagaaaag 240
ttcaaggccg aagatgaaca agaagctcaa cgtgttcaag ctaagaatca gctagaatcg 300
tacgcgttta ctttgaaaaa ttctgtgagc gaaaataact tcaaggagaa ggtgggtgaa 360
gaggatgcca ggaaattgga agccgcccgc caagatgcta taaattggtt agatgcttcg 420
caagcggcct ccaccgagga atacaaggaa aggcaaaagg aactagaagg tgttgcaaac 480
ccattatga gtaaatTTTA cggagctgca ggtggtgccc caggagcagg ccagttccg 540
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tag                                                    603

<210> 439
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<212> DNA
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<220>
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<210> 440  
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 <222> 4, 16, 22, 40  
 <223> n = LNA methyl cytosine  
  
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 <210> 454  
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 <221> misc\_feature  
 <222> 1, 25, 28, 37, 40, 46  
 <223> n = LNA methyl cytosine  
  
 <400> 454  
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 <221> misc\_feature  
 <222> 1, 19  
 <223> n = LNA methyl cytosine  
  
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 <221> misc\_feature  
 <222> 1, 4, 7, 49  
 <223> n = LNA methyl cytosine  
  
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 <223> n = LNA methyl cytosine  
  
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 <222> 25, 31  
 <223> n = LNA methyl cytosine  
  
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<221> misc\_feature  
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<221> misc\_feature  
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<221> misc\_feature  
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<221> misc\_feature  
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 <222> 7, 11, 19  
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<221> misc\_feature  
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<221> misc\_feature  
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<221> misc\_feature  
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<400> 810  
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<221> misc\_feature  
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 <210> 818

<211> 40  
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<221> misc\_feature  
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 <223> n = LNA methyl cytosine

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<210> 830  
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<221> misc\_feature  
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<210> 831  
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<221> misc\_feature  
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<221> misc\_feature  
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<221> misc\_feature  
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<210> 834  
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<221> misc\_feature  
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 <223> n = LNA methyl cytosine

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<210> 835  
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<220>  
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<400> 835  
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<210> 836  
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<220>  
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<221> misc\_feature  
 <222> 26, 32, 38  
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 <221> misc\_feature  
 <222> 2, 5, 14, 17, 26, 38  
 <223> n = LNA methyl cytosine  
  
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 <221> misc\_feature  
 <222> 2, 5, 26  
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 <221> misc\_feature  
 <222> 11, 29, 35  
 <223> n = LNA methyl cytosine  
  
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 <221> misc\_feature  
 <222> 8, 20  
 <223> n = LNA methyl cytosine

<400> 840  
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 <210> 841  
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 <221> misc\_feature  
 <222> 5, 14, 23  
 <223> n = LNA methyl cytosine  
  
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 <222> 5, 8, 20  
 <223> n = LNA methyl cytosine  
  
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 <221> misc\_feature  
 <222> 2, 20, 23, 26  
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